Center for Quality and Integrity Design

Emeritus Center

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Established as a center in 1988. QIDEC was originally established as a Center of Excellence with the goal of "developing additional knowledge and an improved engineering educational system to help prevent our loss of mfg capability and our increased liability problems related to failures" within the engineering community in the U.S. More recently, the center expanded the goal to address the shorter term needs of industry and government in their increasing efforts to regain control over technical issues affecting product quality, safety & reliability, product liability and organizational productivity. This is being accomplished by preparing the technology so that it can be exploited within the industrial training marked by QIDEC and its industrial partners.

Overview

Current State Contract	--
Matching Funds	$286,000
Cumulative	$921,018
Industry Jobs Created	8
Center Related Jobs	16
Benefiting Utah Companies	2
Patents Applied	2
Patents Issued	--
License Agreements	2

Technologies

*High temperature SEM fatigue testing

*Work centered on 3 major industrial sectors:

1)medical device reliability
2)Aircraft and aerospace structural integrity
3)Structural fatigue and reliability of mechanical systems

Status

*License agreement in force with FASIDE International, Inc. and Technology Management Assoc., Inc.

*2 Inventions disclosed:

1. High temperature adaptation for in site scanning electron microscopy fatigue stress
2. Dual actuated fatigue system attached to a scanning electron microscope

*Industrial Training

*Addressing reliability and maintenance capability of country's aging commercial aircraft fleet

Economic Impact

*$207,000 post doctoral fellowship from Rolls Royce is in final stages

*Over $9.4 billion spent annually in US for outside training industry

*Annual revenues for FASIDE, Inc. are projected to exceed $3.4 million by 1994